CLAIM AMENDMENTS

Claim Amendment Summary

Claims pending

Before this Amendment: Claims 1, 3-7, 9-11, 13-23, 25-27, 30-35 and 38-

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After this Amendment: Claims 1, 3, 4, 7, 9-11, 14-17, 19, 21-23, 25-27, 30-

34, 38 and 39.

Non-Elected, Canceled, or Withdrawn claims: Claims 5, 6, 13, 18, 20, 35 and

40-41.

Amended claims: Claims 1, 4, 9-11, 17, 23, 32-34, 38 and 39.

New claims: None.

Claims:

1. (Currently amended) A method comprising:

monitoring one or more players in a game, wherein the game is monitored only on

a game server;

deciding, based on [[said] the monitoring, identifying one or more player-

exploitable game conditions, wherein the player-exploitable game conditions [[are]]

being programming conditions, situations, or aberrations produced within the game that

give the one or more cheating players an advantage against other players without the one

or more cheating players hacking the game, [[and]] the deciding comprising:

are identified by observing the players' play of the game;

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setting a threshold against which the play of the one or more players is

compared, wherein the threshold being modified in real time on basis of is set

based on a rate at which the scores and virtual objects of the one or more players

are acquired during the game; virtual property is acquired during the play and

wherein the threshold is configured to be modified in real time; and

triggering a player monitor for one or more potential cheating players

whose rate of acquiring the scores and virtual objects is greater than the threshold,

the player monitor logging game data about activities of the one or more potential

cheating players in the game, the activities including locations, enemies injured or

eliminated, objects gained or traded for each of the one or more potential cheating

players;

determining the one or more potential cheating players are cheating in the

game based at least in part on the logged game data, and in an event the one or

more potential cheating players are cheating in the game:

identifying the player-exploitable game conditions of which the one

or more potential cheating players are taking the advantage in the game

identifying, among the players, one or more cheating players who are

exploiting the player-exploitable game conditions, the identifying comprising

comparing the rates at which the cheating players acquire the virtual property in

the game against the threshold, whereby the cheating players and player-

exploitable game conditions are dealt with to prevent from further occurrence.

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2. (Canceled).

3. (Original) The method of claim 1, wherein the monitoring is automatic.

4. (Currently amended) The method of claim 1, wherein the monitoring

checks for the one or more potential cheating players cheating player.

5-6. (Canceled).

7. (Original) The method of claim 1, wherein a cheater detection portion

performs the monitoring.

8. (Canceled).

9. (Currently amended) The method of claim 1, further comprising

sending a notice to the one or more potential cheating players the cheating player.

10. (Currently amended) The method of claim 1, further comprising

terminating the one or more potential cheating players' the cheating player's privileges

for a prescribed duration.

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11. (Currently amended) The method of claim 1, further comprising sending a notice to players other than the cheating player the one or more potential cheating players describing the activities of the one or more potential cheating players cheating player.

12-13. (Canceled).

14. (Original) The method of claim 1, wherein the player-exploitable game

condition includes positioning the player at some location other than a ground plane

within a virtual scene.

15. (Original) The method of claim 1, wherein the player-exploitable game

condition includes rollover of a player's score.

16. (Original) The method of claim 1, wherein the player-exploitable game

condition includes rollover of a player's expense.

17. (Currently amended) An apparatus implemented at least in part by a

computing device comprising:

a processor;

one or more computer readable media; and

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a computer program encoding a game including a cheater detection portion that

identifies one or more player-exploitable game conditions and detects players who are

exploiting at least one of said player-exploitable game conditions, the player-exploitable

game conditions being programming conditions, situations, or aberrations produced

within a game that give the players an advantage without the players hacking the game,

the cheating detection portion comprising:

a player game scoring portion configured to keep record of how well one or

more potential players are performing in a game;

a player monitor portion configured to determine whether the one or more

potential players are likely to be cheating based on the record provided by the

player game scoring portion by comparing actual rate of acquiring scores by the

one or more potential players against a threshold;

a criteria based logging portion configured to log game data including

scores and virtual objects of the one or more potential players in the game over an

extended duration, the game data being analyzed to identify the one or more

player-exploitable game conditions in the game and detect the players who are

exploiting the one or more player-exploitable game conditions; and

an alert portion configured to transmit alert messages reporting the one or

more player-exploitable game conditions and the one or more potential cheating

<u>players</u>

wherein the cheater detection portion further sets a threshold against which

the play of a number of players is compared, wherein the threshold is set based on

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wherein the cheater detection portion detects the players who are exploiting at least one of said player-exploitable game conditions by identifying the players whose rate exceeds the threshold.

18. (Canceled).

19. (Original) The apparatus of claim 17, wherein the cheater detection

portion includes an asynchronous activity pump.

20. (Canceled).

21. (Original) The apparatus of claim 17, wherein the cheater detection

portion is included as a portion of a network.

22. (Original) The apparatus of claim 17, wherein the cheater detection

portion is included as a portion of a stand-alone computer system.

23. (Currently amended) A method comprising:

setting a threshold for a game, wherein the threshold is set based on a rate at which

virtual property is acquired and the threshold [[can]] is configured to be modified in real

time;

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monitoring play of a plurality of players for one or more player-exploitable game

conditions, wherein the play is monitored only on a game server, and wherein the one or

more player-exploitable game conditions comprising one or more of comprise at least a

rollover situation [[or]] and a dupping situation in which one or more cheating players

take an unfair advantage by exploiting such situation without hacking the game, wherein:

the rollover situation happens in the game where number of digits for

scoring, purchasing or other game activities are too low to describe all potential

transactions; and

the dupping situation happens in the game where one or more cheating

players duplicate an item by exploiting buffer overrun code in a manner that

causes a game server to crash and recover with user data reflecting game status of

the one or more cheating players prior to the game server crash;

determining whether the threshold is exceeded for any of the players of the game;

logging the play of the player whose play exceeds the threshold to a computer

storage media; and

identifying the one or more player-exploitable game conditions and the one or

more cheating players who exploit the player-exploitable game conditions and whose

play exceeds the threshold for the game based at least in part on the logged play, whereby

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the cheating players are dealt with to prevent from further occurrence.

24. (Canceled).

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25. (**Previously presented**) The method of claim 23, further comprising changing the threshold when the game is being played.

26. (**Original**) The method of claim 23, wherein the threshold can be reset.

27. (Original) The method of claim 23, wherein the determining whether the

threshold is exceeded is based on the rate at which a particular player is acquiring virtual

property.

28-29. (Canceled).

30. (Previously Presented) The method of claim 23, further comprising

punishing the one or more cheating players.

31. (Previously Presented) The method of claim 23, further comprising

modifying the game based on the one or more cheating players.

32. (Currently amended) A computer readable medium having computer

executable instructions that, when executed by a processor, causes the processor to

perform a method, the method comprising:

monitoring one or more players in a game on a game server;

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deciding, based on the monitoring, one or more player-exploitable game

conditions, the player-exploitable game conditions being programming conditions,

situations, or aberrations produced within the game that give the one or more players an

advantage against other players without the one or more players hacking the game, the

deciding comprising:

setting a threshold against which the play of the one or more players is

compared, the threshold being modified in real time on basis of a rate at which the

scores and virtual objects of the one or more players are acquired during the game;

triggering a player monitor for one or more potential cheating players

whose rate of acquiring the scores and virtual objects is greater than the threshold,

the player monitor logging game data about activities of the one or more potential

cheating players in the game, the activities including locations, enemies injured or

eliminated, objects gained or traded for each of the one or more potential cheating

players;

determining the one or more potential cheating players are cheating in the

game based at least in part on the logged game data, and in an event the one or

more potential cheating players are cheating in the game:

identifying the player-exploitable game conditions of which the one

or more potential cheating player are taking the advantage in the game

setting a threshold for a game, wherein the threshold is set based on the rate at

which virtual property is acquired and the threshold can be modified in real time;

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monitoring play of a plurality of players for one or more player-exploitable game

conditions, wherein the play is monitored only on a game server, and wherein the one or

more player-exploitable game conditions comprise at least a rollover situation or a

dupping situation in which one or more cheating players take an unfair advantage by

exploiting such situation without hacking the game; and

determining whether the threshold is exceeded for any of the players of the game.

33. (Currently amended) The computer readable medium having

computer executable instructions of claim 32, wherein the determining the one or more

potential cheating players are cheating is based in part method further comprises

determining whether the player is cheating based on logging [[the]] play of the one or

more potential cheating players player whose play exceeds the threshold.

34. (Currently amended) The computer readable medium having

computer executable instructions of claim 32, wherein the threshold is configured to

[[can]] be reset.

35-37. (Canceled).

38. (Currently amended) The computer readable medium having

computer executable instructions of claim 32, wherein the method further comprises

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punishing one or more potential cheating players, wherein the cheating players are one or more players who exceed the threshold for the game.

39. (Currently amended) The computer readable medium having

computer executable instructions of claim 32, wherein the method further comprises

modifying the game based on one or more potential cheating players, wherein the

cheating players are one or more players who exceed the threshold for the game.

40-41. (Canceled).

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